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PATENT ABSTRACTS OF JAPAN(21) Application number: **10341876**(51) Intl. Cl.: **F01N 3/02**(22) Application date: **01.12.98**

(30) Priority:	(71) Applicant: TOYOTA MOTOR CORP
(43) Date of application publication: 13.06.00	(72) Inventor: SUGIYAMA TOSHIHISA TAWARA ATSUSHI
(84) Designated contracting states:	(74) Representative:

**(54) REGENERATION
CONTROL DEVICE FOR
PARTICULATE FILTER**

(57) Abstract:

PROBLEM TO BE SOLVED: To suppress increase of a fuel consumption amount of an engine and satisfactorily regenerate a particulate filter.

SOLUTION: An independent particulate filter(DPF) 40 is arranged on each exhaust port of a cylinder in a diesel engine 1. An electronic control unit(ECU) 30 of the engine performs one of the operations; phase lag of fuel injection timing into the cylinder, injection in an expansion process, throttling of intake, throttling of exhaust when an amount of the particulates captured by the DPF is increased and the engine is operated within a specified operation area, for increasing the exhaust temperature of the engine and burning the captured particulates. The ECU succeeds the regeneration operation, even when the engine operation area is out of the regeneration area during executing the regeneration, until the DPF temperature sensed by a temperature sensor 53 is reduced to a specified value or lower.

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